

WIECZOREK, J.

"Warsaw Voivodeship Office Struggles for the December Market Supply."
p. 24, (GOSPODARKA RYBNA, Vol. 6, No.2, Feb. 1954. Warszawa, Poland.)

SO; Monthly List of East European Acquisition, (EEAL), LC,
Vol. 3, No. 12, Dec. 1954, Uncl.

WIECZOREK, J.

"We Should Increase the Fishing of Flounder." p. 25, (GOSPODARKA RYBNA,
Vol. 6, No. 2, Feb. 1954. Warszawa, Poland.)

SO: Monthly List of East European Accession, (EEAL), LC,
Vol. 3, No. 12, Dec. 1954, Uncl.

WIECZOREK, J.

"Conference of Leading Rationalizers of the Fish Industry." p. 25.
(GOSPODARKA RYBNA, Vol. 6, No. 2, Feb. 1954. Warszawa, Poland.)

SO: Monthly List of East European Accession, (EEAL), LC,
Vol. 3, No. 12, Dec. 1954, Uncl.

WIECZOREK, J.

"Results of Sea Fishing in 1953." p. 26, (GOSPODARKA RYBNA, Vol. 6,
No. 2, Feb. 1954. Warszawa, Poland.)

SO: Monthly List of East European Accession, (EEAL), LC,
Vol. 3, No. 12, Dec. 1954, Unclassified.

WIECZOREK, Jan Sylwester; TALIK, Tadeusz

Preparation and some reactions of 3-bromo-4,5-diaminopyridine.
Rocznik chemii 36 no.5:967-970 '62.

1. Katedra Chemii Organicznej I, Politechnika, Wrocław, i
Katedra Chemii, Zakład Chemii Organicznej, Wyższa Szkoła
Ekonomiczna, Wrocław.

KRZYWY, Tadeusz; SZERSZEN, Leszek; WIECZOREK, Jadwiga

Occurrence of actinomycetes in Spitsbergen in relation to ecologic factors. *Arch.immun.ter.dosw.* 9 no.2:253-260 '61.

1. Department of Antibiotics, Institute of Immunology and Experimental Therapy, Polish Academy of Sciences, Wroclaw, and Chair of Soil Science, Agricultural High School, Wroclaw.

(ACTINOMYCETES) (SOIL microbiol)

WIECZOREK, Jadwiga

The Actinomycetes of Spitsbergen. II. Production of antibiotics in
subsurface cultures. Arch. immun. ter. dosw. 9 no.4:697-704 '61.

1. Department of Antibiotics, Institute of Immunology and Experimental
Therapy, Polish Academy of Sciences, Wroclaw.

(ANTIBIOTICS) (ACTINOMYCES)

WIECZOREK, J.S. mgr.inz.

Problems of the young scientific cadres. Przegl techn 81 no.16:
17-18 Ap '60.

KANSY, Jerzy; WIECZOREK, Jerzy

Skull depression in a newborn infant delivered by cesarean section. Pediat. Pol. 40 no.3:305-307 Mr '65.

1. Z Kliniki Poloznictwa i Chorob Kobieczych Centralnego Szpitala Klinicznego Wojskowej Akademii Medycznej w Lodzi (Kierownik: doc. dr. med. J. Higier) i z Kliniki Chirurgicznej Instytutu Matki i Dziecka (Kierownik: prof. dr. med. W. Poradowska; Dyrektor: prof. dr. med. B. Gornicki).

WIECZOREK, Jerzy

Duplication of the digestive system. Pediat. Pol. 39 no.73
815-821 Ja '64.

1. Z Kliniki Chirurgicznej (Kierownik: prof. dr med. W. Poradowska) i z Zakladu Radiologii (Kierownik: doc. dr med. S. Kubicz) Instytutu Matki i Dziecka w Warszawie (Dyrektor: prof. dr med. B. Gornicki).

RUSZCZEWSKI, Zygmunt; ZAWADZKI, Ryszard; GRYNSZTAJN, Adam; KAPUSCINSKA, Wanda; RUWINSKI, Bohdan; WIECZOREK, Miroslaw; SZOZDA, Mieczyslaw

Anatomic and pathologic studies on the effect of cotton dust on the respiratory tract. Polski tygod. lek. 9 no.50:1602-1604 13 Dec 54.

1. Z Zakladu Anatomii Patologicznej A.M.w Lodz; kierownik: prof. dr A.Pruszczynski.

(RESPIRATORY TRACT, physiology,

eff. of cotton dust, autopsy findings in subjects exposed to dust)

(DUST,

cotton dust, eff. on resp. tract, autopsy findings in subjects exposed to dust)

(COTTON,

cotton dust, eff. on resp. tract, autopsy findings in subjects exposed to dust)

WIECZO REFL M

KOZIOWSKI, Henryk; MALDYK, Eugeniusz; SZENDZIKOWSKI, Stefan; WIECZOREK, Miroslaw

Histological changes in the intrapulmonary blood vessels & aorta during fibrocavernous pulmonary tuberculosis. Gruzlica 25 no.3:181-188 Mar 57.

1. Z Zakladu Anatomii Patologicznej A.M. w Lodzi Kierownik: prof. dr med. A. Pruszcynski. Adres: Lodz, ul. Sedziowska 18.

(TUBERCULOSIS, PULMONARY, pathol.

aorta & intrapulm. blood vessels, histopathol. in fibrocavernous tuberc. (Pol))

(AORTA, pathol.

histopathol. in fibrocavernous pulm. tuberc. (Pol))

(LUNGS, blood supply

histopathol. of intrapulm. vessels in fibrocavernous pulm. tuberc. (Pol))

SROCZYNKI, Jan; WIMCZOREK, Miroslaw

Anatomo-pathological studies in rabbits in acute lead poisoning.
Postery hig.med.dosw. 13 no.6:759-763 '59.
(LEAD POISONING pathol)

ADAMKIEWICZ, Kazimierz; WIECZOREK, Miroslaw; CZOPIK, Jerzy; MUSIEROWICZ,
Andrzej; ZIELINSKI, Jerzy

Effect of decapsulation and enveloping the kidney in the omentum on
the development of collateral vascularization. Pol. tyg. lek. 17 no.6:
206-209 5 F '62.

1. Z II Kliniki Chirurgicznej Sl. AM w Zabru; kierownik: prof. dr
med. J. Gasinski i z Zakladu Anatomii Patologicznej Sl. AM w Zabru;
kierownik: prof. dr med. W. Niepolomski.

(KIDNEYS blood supply) (OMENTUM physiol)

WIECZOREK, Miroslaw; SROCZYNSKI, Jan

Anatomical and pathological studies in experimental chronic lead poisoning in rabbits. Postepy hig.med.dosw.17 no.5:595-601
S-0*63

1. Z Zakladu Anatomii Patologicznej Slaskiej AM ;(kierownik:
prof.dr. W.Niepolomski) i z II Kliniki Chorob Wewnetrznych
Slaskiej AM w Zabrzu-Rokitnicy (kierownik: prof.dr.W.Zahorski).

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ADAMKIEWICZ, Kazimierz; GINKO, Tadeusz; GRZBIELA, Jacek; WIECZOREK,
Miroslaw

Substitution of ureteral defects with autologous ureteral grafts.
Pol. przegl. chir. 36 no.4a;Suppl.:467-479 Ap '64.

1. Z II Kliniki Chirurgicznej Slaskiej Akademii Medycznej
w Zabrzu (Kierownik: prof. dr J. Gasinski) i z Zakladu
Anatomii Patologicznej Sl. Akademii Medycznej w Zabrzu
(Kierownik: prof. dr W. Niepolomski).

WIECZOREK, Miroslaw

Tanninophilic proteins in cancer cells. Pat. Pol. 16 no.3:
257-266 Jl-S ' 65.

1. Z Zakladu Anatomi Patologicznej Slaskiej AM w Zabrze
(Kierownik: prof. dr. med. W. Niepolomski).

CZYZEWSKI, Kazimierz; GORKA, Zygmunt; SOSNIERZ, Marian; WIECZOREK,
Miroslaw.

Clinical and histological aspects of bronchial carcinoma in
own material. Gruzlica 33 no.1:13-20 Ja '65.

1. Z I Kliniki Chirurgii Slaskiej Akademii Medycznej (Kie-
rownik: prof. dr. med. S. Szyszko) i z Zakladu Anatomii
Patologicznej Slaskiej Akademii Medycznej w Zabrzu (Kierow-
nik: prof. dr. med. W. Niepolomski).

Wieczorek, Oswald

POLAND / Chemical Technology, Chemical Products and Their
Application, Part 3. - Treatment of Solid Combustible
Minerals.

H-21

Abs Jour : Ref. Zhur. Khimiya, No 4, 1958, 12455.

Author : Jozef Kula, Oswald Wieczorek.

Inst : Not given.

Title : Chlorine in Tar and in Its Distillation Products.

Orig Pub : Koks, smola, gaz, 1957, 2, No 1, 32 - 33.

Abstract : The analytical determination of Cl contents in samples of raw tar from Polish by-product-coke works and in products of fractional distillation of these tars was carried out; a tentative balance of Cl distribution among the distillation products was made and it was shown that only 1/3 to 2/3 of chlorine contained in tar passed into pitch and that the

Card 1/2

WIECZOREK, P.

Chinese shipbuilding industry. p.7

PRGEGLAD TECHNICZNY. (Naczeln Organizacja Techniczna) Warszawa, Poland
Vol.80, no.50, Dec. 1959

Monthly list of East European Accessions (EEAI) LC, Vol.9, no.1, Jan. 1960

Uncl.

POMIANOWSKI, Andrzej, mgr inz.; WIECZOREK, Stanislaw, mgr inz.

High-power short circuit laboratory of the Power Institute.
Energetyka Pol 18 no.4: Supplement: biul inst energetyki 6
no.3/4:9-11 Ap'64

WIECZOREK, Tadeusz

American clubs of agricultural youth and the Agricultural Preparation Corps in Poland. Postepy nauk roln 11 no.4:133-144 Jl-Ag '64.

1. Department of Pedagogy of the Central College of Agriculture, Warsaw.

WIECZOREK, Zbigniew

SKURSKI, Adam; KAPINSKA, Eugenia; WIECZOREK, Zbigniew

Behavior of BCG strains of various origin in phagocytic reaction
in vitro. Arch. immun. ter. dosw. 5:21-35 1957.

1. Instytut Immunologii i Terapii Doswiadczałnej PAN we Wrocławiu
(Dyrektor: prof. dr. St. Slopek) Dział Bakteriologii i Antybiotyków
(Kierownik: prof. dr. St. Slopek)

(BCG VACCINATION

behavior of BCG strains of various origin in phagocytic
reaction in vitro (Pol))

SKURSKI, Adam; KAPINSKA, Eugenia; WIECZOREK, Zbigniew; MORDARSKA, Halina

Phagocytosis of virulent & avirulent acid-fast tuberculosis bacilli
in vitro. Arch. immun. ter. dosw. 5:37-57 1957.

1. Instytut Immunologii i Terapii Doswiadczonej PAN we Wrocławiu
(Dyrektor: prof. dr St. Slopek). Dział Bakteriologii i Antybiotyków
(Kierownik: prof. dr. St. Slopek)

(MYCOBACTERIUM TUBERCULOSIS

phagocytosis of virulent & avirulent acid-fast
tuberc. bacilli in vitro (Pol))

LISOWSKI, Jozef, WIECZOREK, Abigail, SKURSKI, Adam

Effect of thiol compounds on bacterial phagocytosis in vitro. Postepy
hig.med.dosw. 12 no.1:93-94 1958

1. Instytut Immunologii i Terapii Doswiadczonej PAN im. Ludwika
Hirschfelda. Dzial Biochemii i Dzial Bakteriologii i Antybiotykow.
Adres: Wrocław, ul. Chalubinskiego 4.

(ACETIC ACID, related cpds.

mercaptoacetic acid, eff. on phagocytosis in vitro (Pol))
(DIMERICAPROL, effects,

on phagocytosis in vitro (Pol))

(PHAGOCYTOSIS, effect of drugs on,
BAL & mercaptoacetic acid, in vitro (Pol))

KANTOCH, Miroslaw, SKURSKI, Adam, WIECZOREK, Zbigniew

Inhibition of phagocytosis in vitro with the aid of bacteriophages.
Postepy hig. med. dosw. 12 no.1:95-96 1958

1. Instytut Immunologii i Terapii Doswiadczałnej PAN im. Ludwika
Hirschfelda. Dział Wirusologii i Dział Bakteriologii i Antybiotyków.
Adres: Wrocław, ul. Chalubinskiego 4)

(PHAGOCYTOSIS,
inhib. by bacteriophages in vitro (Pol))
(BACTERIOPHAGES,
phagocytosis inhib. in vitro (Pol))

WIECZOREK, Zbigniew

Isolation and physico-chemical properties of a tuberculostatic factor
from the bulbs of solanum tuberosum. Arch.immun.ter.dosw. 9 no.2:
171-195 '61.

1. Department of Mycology, Institute of Immunology and Experimental
Therapy, Polish Academy of Sciences, Wroclaw.

(ANTITUBERCULAR AGENTS pharmacol)
PLANTS MEDICINAL pharmacol)

WIECZOREK, Zbigniew; SZULGA, Teofil; CZAJKA, Maria

Precipitation of tuberosine from the juice of the potato bulb at various concentrations of hydrogen ions. Arch. immun. ter. dosw. 9 no.4:651-656 '61.

1. Department of Mycology, Institute of Immunology and Experimental Therapy, Polish Academy of Sciences, Wroclaw.

(ANTITUBERCULAR AGENTS chem)

SZULGA, Teofil; WIECZOREK, Zbigniew; MADRA, Janina

Reduction of activity of tuberosine after contact with suspensions
of tubercle bacilli of various densities. Arch. immun. ter. dosw. 9
no.4:657-666 '61.

1. Department of Mycology, Institute of Immunology and Experimental
Therapy, Polish Academy of Sciences, Wroclaw.

(ANTITUBERCULAR AGENTS pharmacol)
(MYCOBACTERIUM TUBERCULOSIS pharmacol)

WIECZOREK, Zbigniew; SZULGA, Teofil

Electrophoretic separation of tuberosine. Arch. immun. ter. dosw. 9
no.4:667-671 '61.

1. Department of Mycology, Institute of Immunology and Experimental
Therapy, Polish Academy of Sciences, Wroclaw.

(ANTITUBERCULAR AGENTS chem) (ELECTROPHORESIS)

SZULGA, Teofil; WIECZOREK, Zbigniew; MADRA, Janina; CZARNECKA, Teresa

Studies of the inactivation of tuberosine by sera of various species.
Arch. immun. ter. dosw. 9 no.4:673-678 '61.

1. Department of Mycology, Institute of Immunology and Experimental
Therapy, Polish Academy of Sciences, Wroclaw.

(ANTITUBERCULAR AGENTS)

MICHALSKA, Eugenia; SKURSKI, Adam; WIECZOREK, Zbigniew

The behavior of opsonizing and agglutinating antibodies in
states of immunologic tolerance. Arch. immun. ther. exp.
12 no.6:683-689 '64

1. Department of Mycology, Institute of Immunology and Ex-
perimental Therapy, Polish Academy of Sciences, Wroclaw.

MASTALERZ, P.; WIECZOREK, Z.; KOCHMAN, M.

Utilization of carbon-bound phosphorus by microorganisms. Acta
biochim. Pol. 12 no.2:151-156 '65

1. Department of Organic Chemistry, Institute of Technology,
Wroclaw; Department of Mycology, Institute of Immunology
and Experimental Therapy, Polish Academy of Sciences, Wroclaw;
and Department of Physiological Chemistry, Medical School of
Wroclaw.

WIECZOREK, Zbigniew; SKURSKI, Adam; SIEMEK, Ryszard.

The effect of lysozyme on the phagocytosis of tubercle bacilli.
Arch. immun. ther. exp. 13 no. 2 197-203 '65

1. Department of Mycology, Institute of Immunology and Experimental Therapy, Polish Academy of Sciences, Wroclaw.

SZULGA, Teofil; WIECZOREK, Zbigniew; MADRA, Janina; KOWALCZYK, Halina

Classification of acid-fast bacilli isolated from the milk of
cows and from sewage used for fertilizing pastures. Pt.3. Arch.
immun. ther. exp. 13 no.3:336-343 '65.

1. Department of Mycology, Institute of Immunology and Experimental
Therapy, Polish Academy of Sciences, Wroclaw.

WIECZOREK, Zbigniew; SKURSKI, Adam; SZULGA, Teofil; KEMPA, Bozena;
CZAJKA, Maria

Phagocytosis of atypical mycobacteria from various sources.
Arch. immun. ther. exp. 13 no.1:1-5 '65

Phagocytosis of acid-fast bacilli in the presence of human
and animal sera. Ibid.:6-12

1. Department of Mycology, Institute of Immunology and Ex-
perimental Therapy, Polish Academy of Sciences, Wroclaw.

WIECZORKIEWICZ, A.

Country : POLAND H28
Category : Chemical Technology. Food Industry
Abs. Jour : Ref Zhur-Khimiya, No 14, 1959, No 51472
Author : Wieczorkiewicz, A.
Institute :
Title : Importance of Determining the Adhesiveness in
the Manufacture of Macaroni
Orig Pub. : Przetwor. owoc.-warz. i koncentr., 1958, 2, No
 3, 77-79
Abstract : No abstract.

Card: 1/1

H-162

HLINIAK, Irena; VORBRODT, Janina; WIECZORKIEWICZ, Anna; KOZLIK, Ryszard

Statistical analysis of results in the treatment of cervical
cancer according to material of the Institute of Oncology in
Gliwice during 1947-1952. Nowotwory 11 no. 3/4: 329-337 '61.

l. Z Instytutu Onkologii — Oddział Gliwice Dyrektor: dr med.
J. Świecki. (CERVIX NEOPLASMS ther)

VORBRODT, J.; WIECZORKIEWICZ, A.; HLINIAK, I.

Relation of therapeutic methods to results in the treatment of cervical cancer in the Institute of Oncology in Gliwice. Polski przegl. radiol. 25 no.3:475-484 My-Je '61.

1. Z Instytutu Onkologii w Gliwicach Dyrektor: dr med. J. Świecki.

(CERVIX NEOPLASMS radiother)

WIECZORKIEWICZ, Anna; HLINIAKOWA, Irena; VORBRODTOWA, Janina

Complications following radiotherapy of cervical cancer and effect of general conditions of the patient before therapy on the survival according to material of the Institute of Oncology in Gliwice.
Nowotwory 12 no.2:131-138 '62.

1. Z Instytutu Onkologii Oddzial w Gliwicach Dyrektor: dr med.
J. Swiecki.
(CERVIX NEOPLASMS radiother) (RADIOTHERAPY compl)

WIECZORKIEWICZ, Anna; WOZNIAKOWSKA, Zofia

Evaluation of preventive oncological examinations according to data
of the Regional Oncological Clinical in Gliwice. Polski tygod. lek.
17 no.25:990-996 18 Je '62.

1. Z Instytutu Onkologii w Gliwicach, dyrektor: dr med. J. Swiecki i
Wojewodzkiej Przychodni Onkologicznej w Gliwicach; dyrektor: lek.
med. A. Wieczorkiewicz.
(NEOPLASMS prev & control)

WIECZORKIEWICZ, Anna

Treatment of Wilms' tumor according to data of the Institute of Oncology in Gliwice. Polski przegl. chir. 34 no.6a:623-628 '62.

1. z Instytutu Onkologii w Gliwicach Dyrektor: dr J. Swiecki.
(NEPHROBLASTOMA surg)

KUSMIERCZYK, Waclaw; WIECZORKIEWICZ, Anna; VORRODT, Janina

Attempted prevention of excessive reactions to radiation in
the treatment of laryngal cancer with roentgen rays. Nowo-
twory 13 no.4:341-346 O-D'63.

1. Z Kliniki ORL Sl. AM w Zabrus (kierownik: prof. dr.med.
T.Ceypek) i Instytutu Onkologii w Gliwicach (dyrektor: dr.
med. J.Swiecki).

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POLAND

WIECZORKIEWICZ, Anna, SCHNEIDER, Krzysztof, and ZAREMBA, Barbara; Institute of Oncology (Instytut Onkologii) in Gliwice (Director: Dr. med. Jeremi SWIECKI)

"Some Problems of Therapy of Malignant Diseases of the Lympho-Reticular System."

Warsaw, Polski Tygodnik Lekarski, Vol 18, No 22, 27 May 63, pp 789-792.

Abstract: [Authors' English summary modified] Authors discuss the relationship between leukemia and lymphatic sarcoma and the difficulties of differentiation between a neoplasm and leukemia in the lympho-reticular system. They exemplify the problem by citing three cases, and recommend careful observation during x ray treatment in view of the fact that the existing classification of the malignant diseases of the lympho-reticular system does not include the prognosis. There are 25 references, of which eight (8) are Polish, two (2) German, and the remaining 15 - Western.

1/1

SWIECKI, Jeremi, dr. med.; WIECZORKIEWICZ, Anna; ILENIAK, Andrzej

Combined treatment of microcellular cancer of the lung with
nitrogranulogen and radiotherapy. Pol. tyg. lek. 20 no.5:
174-175 1 F'65.

1. Z Instytutu Onkologii; oddział w Gliwicach (dyrektor: dr.
med. Jeremi Świecki).

WIELKOPOLSKIE, 51

KIMMEL, Zbigniew; WIECZORKIEWICZ, Bronislaw.

Three cases of congenital obstruction of the esophagus with tracheo-esophageal fistula. Polski przegl.chir. 27 no.5:441-446 May '55.

1. Ze specjalistycznego oddzialu chirurgii czescieej Szpitala Miejskiego w Gliwicach. Ordynator dr med. Zb.Tabenski. i z Prosektury Szpitala Miejskiego w Gliwicach. Prosektor: lek.Z. Kimmel. I. Gliwice, ul. Dluga 21, 2. Gliwice, ul. Zwyciestwa 45, m.5.

(ESOPHAGUS, abnormalities,
atresia with tracheo-esophageal fistula)

(ESOPHAGUS, fistula,
tracheo-esophageal, in atresia of esophagus)

(ABNORMALITIES,
atresia of esophagus, with tracheo-esophageal fistula)

(TRACHEA, fistula,
tracheo-esophageal, in atresia of esophagus)

(FISTULA,
tracheo-esophageal, in atresia of esophagus)

WIECZORKIEWICZ, BRONISLAW

CYWINSKA, Danuta; OCHARSKA, Janina; WIECZORKIEWICZ, Bronislaw

Treatment of scalds in children with discussion on treatment
by the open method. Polski tygod. lek. 12 no.10:348-351
4 Mar 57.

1. (Z Oddzialu Chirurgii Dziecięcej Szpitala Miejskiego w
Gliwicach; ordynator: dr. med. Zbigniew Tabenski). Adres:
Gliwice, ul. Kosciuszki 29, Szpital Miejski, Oddz. Chir.
Dziec.

(BURNS, in inf. & child
scalds, ther., open method (Pol))

TABENSKI, Zbigniew, PLEWINSKA, Teresa, WIECZORKIEWICZ, Bronislaw

Prevention of congenital luxation of the hip, on the basis of material
from the Children's Surgery Ward in Gliwice. Polski, tygod. lek.
13 no.10:351-354 10 Mar 58

1. Z oddzialu chirurgii dziecięcej Szpitala Miejskiego w Gliwicach
ordynator: Zbigniew Tabenski.
(HIP, disloc.
congen., prev. (Pol))

CYWINSKA, Danuta; WIECZORKIEWICZ, Bronislaw

Diagnostic difficulties in acute appendicitis in infants. Pediat.
polaka 34 no.9:1173-1178 Sept 59.

1. Z Oddzialu Chirurgii Dzieciecej Szpitala Miejskiego w Gliwicach
Ordynator Oddzialu: dr med. Zb. Tabenski.
(APPENDICITIS, diag.)

NOWOTNY-ZBOROWSKA, Danuta; WIECZORKIEWICZ, Bronislaw

Preparation of the area for skin grafting in children. Pol.
przegl. chir. 37 no.9:899-901 S 165.

1. Ze Specjalistycznego Oddzialu Chirurgii Dzieciecej Szpitala
Miejskiego w Gliwicach (Kierownik: doc. dr. Z. Tabenski).

LESZ, Katarzyna; WIECZORKIEWICZ, Helena; LIPIEC, Tadeusz

Indirect complexometric determination of thiocompounds.

I. Determination of thiocacetamide (AKT), and thiourea (TM).
Chem anal 6 no.6:1033-1038 '61.

1. Department of Inorganic and Analytical Chemistry, Faculty
of Pharmacy, Academy of Medicine, Lodz.

WIECZORKIEWICZ, Lech, mgr inz.

Development of the production of machines for plastic working
in 1963. Mechanik 36 no.6:270-272 Je '63.

1. Zjednoczenie Przemyslu Obrabiarek i Narzedzi, Warszawa.

WIECZORKOWSKI, J. P. L.

*Organophosphorus compounds of sulfur and selenium. I.
Synthesis of tetraalkyl thiopyrophosphates.* Bernard Biel
er, Jan Michalski and Jan Wieczorkowski (Politech.
Łódź, Poland). Roczniki Chem. 27, 422-431 (1953) (English
summary).—Tetraalkyl thiopyrophosphates, $(RO)_2P(O)$
 $SP(O)(OR')$, may be prep'd. by: (1).—condensation of Na
 O, O -dialkylthiophosphates with dialkyl chlorophosphates or
(2).—action of H_2S on dialkyl chlorophosphates in the pres-
ence of tertiary amines. Toxicity and anticholinesterase
activity of the products were studied. Dialkyl chloro-
phosphates were prep'd. using the method described pre-
viously (cf. C.A. 49, 2300c). Na O, O -dialkylthiophosphates
were obtained by adding 0.25 mole powd. S in small por-
tions with stirring and outside cooling to a mixt. of 0.2
mole Na dissolved in 60 ml. dry ROH and 0.21 mole dialkyl
phosphate in 80 ml. dry Et_2O . Stirring was continued after
all the S was added until the mixt. warmed up to room
temp. The excess S was filtered and the filtrate was evapd.
under reduced pressure at room temp. The cryst. product
was washed 3 times with Et_2O and evapd. each time.
Di-Et phosphite gave 98% yield (based on Na) crude $(EtO)_2$
 $P(O)SNa$ (I), m. 188 [m. 203° (from $CHCl_3$ - Et_2O)].
Crude I was used in further syntheses. $(EtO)_2POCl$ (II)
(21.5 g.) (0.125 mole) added dropwise with vigorous stirring
to a refluxing mixt. of 24 g. (0.125 mole) powd. dry I and
120 ml. anhyd. Et_2O , refluxed for 20 min., dild. with 100 ml.
 C_6H_6 , washed successively with: 100 ml. water, a few
drops pyridine, 50 ml. 1% HCl , 50 ml. water, 50 ml. 5%
 $NaHCO_3$, and 50 ml. water, dried with Na_2SO_4 and distd.
twice gave 20 g. (85%) $(EtO)_2P(O)SP(O)(OEt)_2$ (III), b.
120-2 $d_{40}^{25} = 1.1855$, $n_{D}^{20} = 1.4490$. Similarly, $(MeO)_2$

BERNARD FISZER

$(PO_3)_2Na$ (IV) and $(MeO)_2POCl$ gave 21% $(MeO)_2P(O)SP(O)(OEt)_2$ (V), yellow liquid, $b.p. 128-30^\circ$ (decompa, slightly), $n_{D}^{20} 68-9^\circ$ (bath at 100°), $d_{40} = 1.2340$, $n_{D}^{20} = 1.4519$. IV and II gave 10% $(MeO)_2P(O)SP(O)(OEt)_2$ (VI), colorless liquid, $b.p. 110^\circ$, $d_{40} = 1.2530$, $n_{D}^{20} = 1.4109$. I and $(BuO)_2POCl$ gave 87 g. crude product which in a mol. distn. (at 0.001 mm., condenser at 20 min. from liquid surface, distg. at 5 drops/min.) gave the following fractions: (1).—6 g., temp. of liquid $50-55^\circ$, $n_{D}^{20} = 1.4398$; (2).—13.5 g., temp. of liquid 88° , $n_{D}^{20} = 1.4471$, 16.8% P (calcd. for $(BuO)_2POCl$).

$(PO_3)SP(O)(OEt)_2$, 17.1% P; (3).—27.5 g., temp. of liquid 97° , $n_{D}^{20} = 1.4415$, 14.6% P; (4).—2.5 g., temp. of liquid 117° , $n_{D}^{20} = 1.4340$. I and $(PrO)_2POCl$ (VII) gave 77% $(PrO)_2P(O)SP(O)(OEt)_2$, colorless liquid, $b.p. 103.5^\circ$, $d_{40} = 1.1347$, $n_{D}^{20} = 1.4429$. II (34.5 g., 0.2 mole) was added dropwise with stirring at $10-15^\circ$ to 70 ml. dry pyridine and a strong stream of H_2S was passed through the stirred and cooled mixt. for 90 min. The pptd. $C_6H_5N \cdot HCl$ was filtered and washed twice with 75 ml. C_6H_6 . The combined filtrates were distd. under reduced pressure and the residue taken up in 100 ml. C_6H_6 , washed successively with 30 ml. 2% HCl, 30 ml. water, 30 ml. 5% $NaHCO_3$, and 30 ml. water, dried with Na_2SO_4 , and distd. twice gave 22 g. (74%) III, $b.p. 82-4^\circ$. An 85% yield of III was obtained when *N*-methylmorpholine (dil. with C_6H_6) was used instead of pyridine. Similarly, VII and H_2S in pyridine, gave 67% $(PrO)_2P(O)SP(O)(OPr)_2$ (VIII), colorless liquid, $b.p. 94-5^\circ$, $d_{40} = 1.1076$, $n_{D}^{20} = 1.4363$; $(iso-PrO)_2POCl$ gave 70% $(iso-PrO)_2P(O)SP(O)(OPr-iso)_2$ (IX), colorless liquid, $b.p. 82-4^\circ$, $d_{40} = 1.0855$, $n_{D}^{20} = 1.4370$; $(BuO)_2POCl$ gave 72% $(BuO)_2POSP(O)(OBu)_2$ (X), yellow liquid, $b.p. 112-14^\circ$, $n_{D}^{20} = 1.4374$, $n_{D}^{20} = 1.4317$; $(iso-BuO)_2POCl$ gave 72%

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$(iBu_2BuO)_2P(O)SP(O(OBu)_2)_2$, (XI), colorless liquid, bp 53-54°, $d_4^{20} = 1.0483$, $n_D^{20} = 1.4463$; $(MeO)_2FOCl$ (below 5°) gave a syrupy, malodorous liquid, insol. in org. solvents, sol. in water. Et₃N (0.25 mole) added dropwise to 0.3 mole di-*i*-Bu phosphite and 0.8 mole CCl₄, and treated with HgS with stirring at 5-10° for 3 hrs, gave 85% (XII). All boiling points are uncor. Tetraalkyl thiopyrophosphates are insecticides. The following doses (in g./kg. wt. of animal) were fatal to mice and rats when injected intramuscularly: (XII), 0.000056; V and X, 0.00025; VI, 0.001; VIII, 0.0025; IX and XI, 0.35. All compds. stopped cholinesterase activity in rat brain, (XII) being the most active and approaching parathion in effectiveness. J. R. Socacer.

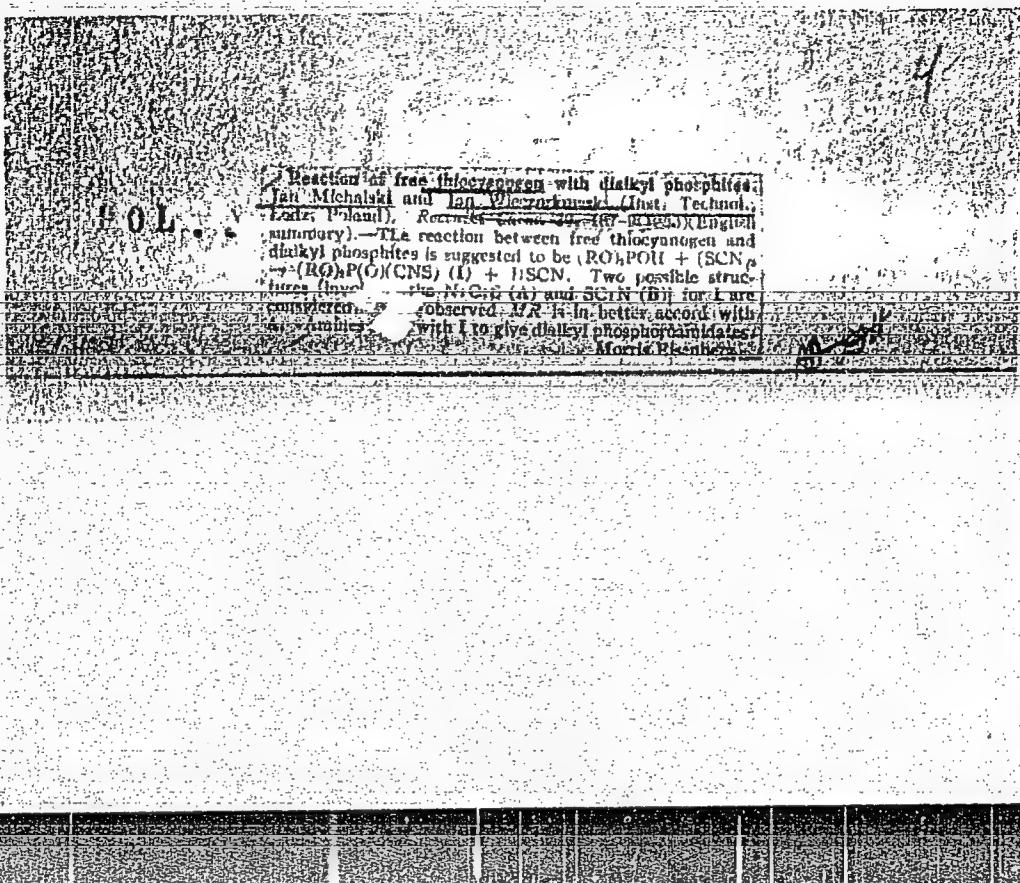
WIECZORKOWSKI, JAN

POL.

Organophosphorus compounds of sulfur and selenium.
II. Synthesis of tetralkylselenopyrophosphates. Jan
Michałek and Jan Wieczorkowski (Higher Polytech. School
in Zielona Góra, Poland). *Roczniki Chem.* 24, 233-8 (1951) (English
summary); cf. *C.A.* 45, 3785a. Tetraalkylselenopyro-
phosphate, $\text{S}_2\text{PO}(\text{OR})_2$ (I), were prep'd. by adding with
good stirring 0.1 mole dialkyl ester, phosphate (*C.A.* 42, 2346c);
2346c) to 0.1 mole of dried and powd. $(\text{EtO})_2\text{P}(\text{O})\text{SeNa}$ (cf.
Pozz, *C.A.* 42, 2537c) in 100 ml. boiling anhyd. ether (Hg-
sealed stirrer, drying tube). The mixt. was refluxed 90
min.,稀釋 with 50 ml. C_6H_6 in a separatory funnel, washed
with 50 ml. water, the top layer washed with 5% NaHCO_3
(about 50 ml.), H_2O , and dried over Na_2SO_4 . Reaction
products were distd. *in vacuo* after removing the solvents *in
vacuo*. The following esters were prep'd. (alkyls, % yield
b.p. (uncorr.), n_{D}^{20} ; n_{D}^{25} , and d₄ given): tetra-Et (II), 68, b.p.
107°, 1.4933, 1.4918; 1.2403; tetra-Pr, 79, b.p. 100-7°,
1.4770, 1.4843; 1.2086; tetra-iso-Pr, 45, b.p. 93°, 1.4510,
1.4400; 1.1070; tetra-Bu, 60, b.p. 121° (with partial de-
compn.); 1.4558, 1.4510, 1.1395; di-Bu di-Fr [from $\text{ClPO}(\text{OEt})_2$ and $(\text{PrO})_2\text{P}(\text{O})\text{SeNa}$], 80; b.p. 111-12°, 1.4482,
1.4468, 1.2056. Prepn. of the tetra-Me ester was unsuc-
cessful. I possess unpleasant odors, decomps. above 150°,
are sparingly sol. in H_2O and easily sol. in organic solvents,
and are less susceptible to hydrolysis than the corresponding
O-derivs. I with concd. H_2SO_4 ppts. Se; they react with
 AgNO_3 and HgCl_2 . The proposed structure requires further
confirmation. II exhibits *anticholinesterase activity*.

Adam Sporynski

RJ/AS



POLAND/Organic Chemistry. Synthetic Organic Chemistry.

G-2

Abs Jour: Ref Zhur-Khin., No 13, 1958, 43439.

Author : Michalski J., Wieczorkowski J.

Inst : Polish Academy of Sciences.

Title : The Action of Free Thiocyanogen, Diacyl Disulfides,
Bis-(Dialkoxyphosphinyl) Disulfides on Esters of
Acids of Trivalent Phosphorus.

Orig Pub: Bull. Acad. polon. sci., 1957, cl. 3, 5, No 9, 917-921.

Abstract: Investigation of the reactions of $(C_4H_9O)_3P$ (I),
 $(C_4H_9O)_3P$ (II), $(C_4H_9O)_3P$ (III) and $C_6H_5P(OC_2H_5)_2$
(IV) with $(SCN)_2$ (V), $(CH_3COS)_2$ (VI), $[C_4H_9O]_2$
 $P(O)S]_2$ (VII) and $C_4H_9SSP(O)(OC_2H_5)_2$ (VIII).
Listing initial substances, reaction products,
yield in %, BP in $^{\circ}C/mm$ (in parentheses temperature
in $^{\circ}C$): I and V, $(C_4H_9O)_3PS$ (IX), 62, 93.5/13.

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Abs Jour: Ref Zhur-Khim., No 13, 1958, 43439.

1.4486 (20); II and V, $(C_2H_5O)_3PS$, 42, 104/0.6, 156-157/11, 1.4497 (20); I and VI, IX, 96, and $(CH_3CO)_3S$, 97, 50/12, 61-62/20, 1.4820 (21); III and VII, $(C_2H_5O)_3PS$, 89, 148-150/0.1, —, MP 48°, and $(C_2H_5O)_4P_2O_7S$ (X), 77, 82-84/0.04, 1.4502 (25); I and VII, X, 75, $(C_2H_5O)_4P(O)SC_2H_5$ (XI), 31, 112/11, 1.4570 (20), and IX, 37; I and VIII, C_4H_9SP (C)(OC₂H₅)₂, 95, 131-133/11, 1.4580 (20), XI, 31; and IX, 36; IV and VII, $C_6H_5(C_2H_5O)_3-P_2O_7S$, 81, 117-118/0.05, 112/0.03, 1.5065 (20), d₄₂ 1.2050; XI, 34, IX, 37. The assumption is made of an intermediate formation of the unstable $\boxed{RO(R')P^+(SX)(OR)S-Y}$, wherein R = alkyl or aryl, R' = alkoxy, aryl or phenoxy, X = CN, CH₃CO, $(C_2H_5O)_4P(O)$, C₄H₉, Y = CN, CH₃CO, $(C_2H_5O)_4P(O)$. The complex decomposes

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Abs Jour: Ref Zhur-Khim., No 13, 1958, 43439.

either into $RO(R')P(S)OR + XSY$, or $RO(R')P(O)SX + RSY$. Stability of the bonds decreases in the order:
 $ArO > RS > RO > P(O)S > RCOS, NCS$.

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POLAND/Organic Chemistry. Synthetic Organic Chemistry.

G

Abs Jour: Ref. Zhur-Khimiya, No 19, 1958, 64543.

Author : Michalski, Jan; Wieczorkowski, Jan

Inst :

Title : Phosphoroorganic Derivatives of Sulfur and Selenium.
V. The Action of Thiocyanogen on Dialkylphosphites
and Thiophosphites. Dialkyl Isothiocyanophosphates
and Isothiocyanophosphates.

Orig Pub: Roczn. chem. 1957, 31, No 2, 585-600.

Abstract: The action of thiocyanogen (I) on $(RO)_2POH$ (II)
or $(RO)_2PSH$ (III) produces HSCN and, with a yield of
70-80%, $(RO)_2P(Z)NCS$ (IV), where Z = O (IVa), or S (IVb).
(IVa) and (IVb) can also be derived by the action of
KCNS on $(RO)_2P(O)Cl$ or $(RO)_2P(S)Cl$. Upon hydrolysis
of (IVa), HSCN is produced, as well as $(RO)_2P(O)OH$;

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Abs Jour: Ref. Zhur-Khimiya, No 19, 1958, 64543.

upon the reaction of (IVa) with dimethylamine, there are produced $(RO)_2P(O)N(CH_3)_2$ (V) and $(CH_3)_2NH \cdot HSCN$ (VI). Upon the reaction of (IVa) with primary amines, there is produced the thiourea $(RO)_2I(O)NHC(S)NHR'$ (VII). (VIIb) hydrolyzes with more difficulty. Upon its reaction with amines, there is produced $(RO)_2P(S)NHC(S)NHR'$ (VIII). To the solution of 27.6 g (II) ($R=C_2H_5$) in 100 ml. C_6H_6 , there is gradually added at 50° a solution of 0.25 moles of (I) in C_6H_6 . Stir for an hour, then after 24 hours there can be separated (IVa) ($R=C_2H_5$) (here and later in the report, yields are given in %, and b.p. in $^{\circ}C/mm$, $N^{20}D$, d_4^{20} , ^{13}C): 80, 64-65/0/6, 1.4791, 1.1870. Similarly derived is (IVb) where $R = C_3H_7$, 74, 72-73/0.2, 1.4751, 1.1213; (IVa) ($R = \text{iso-}C_3H_7$), 77, 63-64/0.2, 1.4690, 1.1076; (IVa) ($R = C_4H_9$) 88, 86-87/0.12, 1.4718, 1.0757. To a solution

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3/

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Abs Jour: Ref. Zhur-Khimiya, No 19, 1958, 64543.

of 0.4 moles of (I) in 500 ml C_6H_6 , the gradual addition during 50 hours at 0° of a solution of 46.2 g of (III) ($R = C_2H_5$) in 100 ml. C_6H_6 , followed by centrifuging and distilling the product, gives (IVb) ($R = C_2H_5$), 73, 73-74/0.6, 1.5220, 1.1906. Similarly, with (IVb) ($R = C_4H_9$), 72, 109/0.7, 1.5088, 1.0981. To a solution of 9.7 g. of KCNS in 150 ml. of acetone, is added 17.3 g. $(C_2H_5O)_2P(O)Cl$ (IX), and from the filtrate is extracted (IVa) ($R=C_2H_5$), yield 56%; in the presence of acetone, yield 66%. By the same method, yields are: (IVa) ($R=C_4H_9$), 57%, (IVb) ($R=C_2H_5$) 60%, (IVb) ($R=C_4H_9$), 62%. From 32.5 g. $(C_3H_7O)_2P(S)Cl$ and a solution of 14.6 g. KCSN in 200 ml of acetonitrile, there is produced (IVb) ($R=C_3H_7$), 68. 99-102/1.8, 1.5120, 1.1275. To a solution of 14.7 g. (IVa) ($R=C_2H_5$) in 50 ml C_6H_6 ,

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Abs Jour: Ref. Zhur-Khimiya, No 19, 1958, 64543.

there is gradually added a solution of 7 g. dimethylamine in 150 ml C_6H_6 , during 24 hours. There is liberated 4.5 g of (VI), m.p. 112°; from the filtrate can be drawn (V) ($R=C_2H_5$), 67, 98/21, 1.4191, -. To a solution of 17.2 g. (IX) in 50 ml C_6H_6 , there is added gradually 10 g. dimethylamine in 200 ml C_6H_6 at 10-12°, yield of (V) ($R=C_2H_5$) 78%. To a solution of 3.9 g. (IVa) ($R=C_2H_5$) in 40 ml ligroin are added 2.15 g benzylamine in ligroin. The remainder, after driving off the ligroin, is dissolved in C_6H_6 and washed with 15 ml 4% HCl, 5% $NaHCO_3$, and water, yielded (VII) ($R=C_2H_5$), $R' = C_2H_5CH_2$ 81%, m.p. 89° (in cyclohexane). Similarly derived is (VII) ($R = C_2H_5$) $R' =$ cyclohexyl, yield 75%, m.p. 85° (in cyclohexane). To a solution of 4.47 g. (IVa) ($R=iso-C_3H_7$) in 30 ml ligroin, there is added a solution of

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POLAND/Organic Chemistry. Synthetic Organic Chemistry.

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Abs Jour: Ref. Zhur-Khimiya, No 19, 1958, 64543.

2 g. cyclohexamine in 10 ml. ligroin, yielding (VII) ($R=$ iso- C_3H_7 , $R'=$ cyclohexyl) 92%, m.p. 106° (in cyclohexane). To a solution of 2.11 g. (IVb) ($R=C_2H_5$) in 4 ml. ligroin, there is added 1 g benzylamine in 5 ml ligroin, yielding (VIII) ($R=C_2H_5$; $R'=C_6H_5CH_3$) 88%, m.p. 78° (in ligroin or hexane). To a solution of 3.16 g. (IVb) ($R=C_2H_5$) in 40 ml n-hexane, there is added 1.5 g. cyclohexylamine in 10 ml. n. hexane, yielding (VIII) 86%, m.p. 55° (in ligroin). For previous report, see RZhKhim, 1957, 73718.

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POLAND/Organic Chemistry Synthetic Organic Chemistry.

G-2

Abs Jour: Ref Zhur-Khim., No 24, 1958, 81722.

Author : Michalski J., Strzelecka H., Wieczorkowski J.

Inst :

Title : The Phosphororganic Compounds Containing Sulfur and Selenium. VI Amido Esters and Amides of Isothiocyanophosphoric and Isothiocyanothiophosphoric Acids.

Orig Pub: Roczn. chem., 1957, 31, No 3, 879-891.

Abstract: By the reaction of KCNS on $(RO)(R'_2N)P(O)Cl$ (I) (here and further $aR' = CH_3$, $bR' = C_2O_4$ *[sic]*), $(RO)(R'_2N)P(S)Cl$ II, $(R'_2N)_2P(O)Cl$ and $(R'_2N)_2P(S)Cl$, were obtained the corresponding products by substituting chlorine for the NCS group (III-VI). The structure of III-VI was verified by the synthesis of addition compounds of amines. III, especially with

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Abs Jour: Ref Zhur-Khim, no 24, 1958, 81722

a large R, are not stable, and decompose on (R'₂NPO₃)_n and RSCN. By the action of RONa on R'₂NPOCl₂, or by the reaction of R'₂NH with R'₂FOCl₂, the following I were synthesized (here and further for describing the products are given R, yield in %, b.p. in °C./mm. n²⁵D, D₄): I-a, C₃H₇, 72, -, 1.4381, 1.1432; I-a, C₄H₉, 69, 82-84/1, 1.4408, 1.0926; I-b, C₄H₉, -, 96/1 3, 1.4436 (26°), -. In the same way was obtained II-a, C₂H₅, 66, 46.5-47.5/0.4, 1.4947, -,. To the solution of 0.14 moles of KCNS in 200 ml of CH₃CN, 0.14 moles of I-a is added, after one hour CH₃CN is distilled under vacuum, 100 ml of benzene is added, from the filtrate III-a was separated, E₁H₅, 35, 59-61/0.12, 1.4930, 1.1529. In the same

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Abs Jour: Ref Zhur-Khin., No 24, 1958, 81722.

way when acetone was used as the solvent, there were obtained III-a, C_8H_7 , 39, 69-72/0.18, 1.4942, -; IV-a, C_8H_7 , 57, 52-54/0.05, 1.5463, 1.1714; V-a, 77, 101.5-102/1(83-85/0.3), 1.5300, 1.1526; V-b, 80, 73-74/0.01 (82-84/0.1), 1.5010, 1.0697; VI-a, 63, 66-67/0.2, 1.5734, 1.1694. Upon obtaining III-b ($R = C_8H_7$) in hexane, one equivalent of $C_8H_7NH_2$ in hexane is added to the reaction mixture, the $(C_8H_7)_2N(C_8H_7)P(O)NHCSNHC_6H_5$ was separated, yield 85%, m.p. 109-110°C. (from hexane). To the solution of 0.02 moles of V-a in 20 ml ligroin, 0.02 moles of cyclohexamine is added, yield of the $(CH_3)_2N[P(O)NHCSNHC_6H_5]$, 68%, m.p. 122°C. (from C_6H_6). In the same way were obtained (is given: yield in % and m.p. in °C.): $(C_8H_7)_2N[P(O)NHCSNHC_6H_5]$, 93, 121.5-122; $(CH_3)_2N(C_8H_7O)P(S)NHCSNHC_6H_5$,

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Abs Jour: Ref Zhur-Khim., No 24, 1958, 81722.

84, 125-126; $\overline{[(CH_2)_2N]_2P(S)NHCSNH_2C_6H_5}$, 78, 130.
Communication V, see R. Zh. Khim., 1958, 64543.

Card : 4/4

Wieczorkowski, Jan.

Reactions of alkyl alkaneethiosulfonates with trialkyl phosphites. A new synthesis of O,O,S -trialkyl thiophosphates and esters of alkanesulfonic acids. Jan Michałski, Jan Wieczorkowski, and Tomasz Modro (Politec. Zawod. Poland). Roczniki Chem. 32, 1409-11 (1958) (in English). — Et butaneethiosulfonate was treated with tri-Bu phosphite (1:1) at 20-6°. The products were distd. *in vacuo* to yield 89% O,O -di-Bu S -ethylthiophosphate (I), 87-9°, n_D^{20} 1.4524, and 90% Bu butanesulfonate (II), b_1 , 52-4°, n_D^{20} 1.4444. The structure of I was confirmed by reaction with Cl in aq. soln. to give ethanesulfonyl chloride, which was transformed into ethanesulfonyl *p*-toluidide, m. 79-80°. III was hydrolyzed in 1.4*N* alc. aq. 1.4*N* to Na butanesulfinate. The latter was condensed with 2,4-dinitrochlorobenzene to Bu 2,4-dinitrophenyl sulfone, m. 91-2°. The reaction between I and tri-Bt phosphite was carried out in an analogous way. Fractional distn. of the products gave 3 fractions: an azeotropic mixt., 83% Et butanesulfinate (IV), and 17% O,O,S -tri-Bt thiophosphate (V); b_1 , 80-83°, n_D^{20} 1.4388, and b_1 , 115°, n_D^{20} 1.4572. The last fraction was crystd. to give Bu Et sulfone (VI), m. 49-50°. Taking into account the azeotrope, the over-all yields of IV, V, and VI were 67, 89 and 9%, resp. The reaction schemes are given.

A. Krajewski

2 May
4E2c 4
4E3 a
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1
2/1/84
4E2c ej
4E3d
7
9/1
Reactions of organic disulfides with dialkyl phosphites, dialkyl thiophosphites and sodium derivatives. A new synthesis of O,O -trialkyl thiophosphates, O,O -trialkyl dithiophosphates and O,S -dialkyl hydrogen phosphorothiolates. Jan Michałski, Jan Wieczorkowski, Jan Wasik, and Bozena Płoszka (Politechnika, Łódź, Poland). *Roczniki Chem.* 33, 247-50 (1959) (in English).—The reactions between acyl disulfides (I) and dialkyl phosphites (II), dialkyl thiophosphites (III), or their Na derivs. (IV) and (V), resp., have been studied (b.p./mm, and n_D^20 given for the compds. below). II react spontaneously only with I to give $(RO)_2P(SOP(O)(OR))_2$ (R = Et), 78-80°/0.03, 1.4453, and $(RO)_2PSOH$ (R = Et), 62-3°/0.03, 1.4644, in 70% yield. IV react with I in C_6H_6 at 20° as well as with diaryl or dialkyl disulfides (VI), $R'SR'$, to yield $(RO)_2P(O)SR'$ (R = Et, R' = Bu; 135-6°/13, 1.4687; R = Et, R' = Ph), 115-16°/0.6, 1.5248; and $R'SNa$. An analogous reaction takes place between V and VI giving 64% O,O -diethyl S-butyl dithiophosphate, 146°/12, 1.4981. An ionic mechanism is suggested for this reaction. The reaction between IV and VI in boiling C_6H_6 led to secondary dealkylation due to nucleophilic attack of an anion contg. S, which gave $R'SP(O)(OR)ONa$ (VII) and $R'SR$. VII are characterized as cyclohexylamine salts; R = Et, R' = Bu, m. 125-6°; R = Et, R' = Ph, m. 130-1°. The yields of VII were 60-70%. A. Kreglewski

Distr: 4E2c(j)/4E3d

6
1-BN(BW)
2-JA5(CW)(mag)
1-RW

2.

g.) refluxed 2 hrs. with 16.4 g. S-ethyl sodium thiosulfate (IX) in 70 ml. C₆H₆ gave no reaction. Similarly, IX and (EtO)₂P 2 hrs. at 110-20° gave no reaction. (EtO)₂PNa (0.15 mole) in 100 ml. EtOH added to 24.6 g. IX in 100 ml. EtOH at 20° gave 3.2 g. III. J. A. Giles

Organophosphorus compounds of sulfur and selenium. XV. Reactions of organic thiosulfonates with trialkyl phosphites and dialkyl phosphites. Jan Michalski, T. Modro, and J. Wieczorkowski (Inst. Technol., Lodz, Poland). *J. Chem. Soc.* 1960, 1665-70; cf. *CA* 54, 14095d. --Bu₂S₂OEt (I) (27.3 g.) treated with 37.5 g. (BuO)₂P at 20-5° gave 24 g. BuSOOBu, b.p. 52-4°, n_D^{20} 1.4444, and 23.7 g. O,O-dibutyl S-ethyl phosphorothiolate (II), b.p. 87-9°, n_D^{20} 1.4524°. Similarly, 36.4 g. I with 33.2 g. (EtO)₂P gave 13.6 g. mixt. 83% BuSOOBu and 17% O,O,S-triethyl phosphorothiolate (III), b.p. 115°, n_D^{20} 1.4572, and 2.1 g. BuSO₂Et, m. 49-50°. PhSO₂Et (IV) (20.3 g.) with 16.6 g. (EtO)₂P gave 08% III and 74% PhSOOEt obtained as an azeotrope. Similarly, IV with (BuO)₂P gave II and PhSOOBu as the azeotrope, b.p. 95-6°. I with (PhO)₂P gave no reaction. (EtO)₂P (33.2 g.) added to 25 g. PhSO₂Ph (V) in 30 ml. C₆H₆ gave 16.8 g. (EtO)₂P, b.p. 101°, 5.0 g. PhSOOEt, b.p. 59°, n_D^{20} 1.5308, 17.5 g. O,O-diethyl S-phenyl phosphorothiolate (VI), b.p. 87-8°, n_D^{20} 1.5289, and 2 g. (PhS)₂, m. 59°. I (27.3 g.) was added to 3.4 g. Na and 20.7 g. (EtO)₂POH in 150 ml. C₆H₆ at 25-30°, then the mixt. extd. with 3 X 50 ml. H₂O. Dltn. of the C₆H₆ soln. gave 24.5 g. III. Concn. of the aq. solns. gave 11.6 g. BuSOONa (VII), identified by conversion to *n*-butyl 2,4-dinitrophenyl sulfone, m. 59°. Similarly, I with (BuO)₂PNa gave 80% II and 86% VII. IV with (EtO)₂PNa gave 71% III and 86% PhSOONa (VIII), identified by conversion to phenyl 2,4-dinitrophenyl sulfone, m. 157°, and V with (EtO)₂PNa gave 60% VI and 92% VIII. (EtO)₂P (16.6

WIECZOROWSKI, Kazimierz

Selection of the cutting conditions in machining gears. Mechanika
Poznan no. 4:93-119 '62.

WIECZOROWSKI, Kazimierz, dr inz.

Studies on the durability and wear of pinion cutters with
straight teeth for machining gears. Przegl mech 24 no.5:
151 10 Mr '65.

1. Department of Metal Machining of the Warsaw Technical
University.

DZIEKONSKI, J.; KRZYWOSZYNKI, W.; STEFFEN, J.; WIECZOROWSKI, St.

Statistical data on trichomoniasis in bulls in Poland. Wiadomosci parazyt.
Warsz. 4 no. 4:319-322 1958.

(TRICHOMONIASIS, epidemicl.
in bulls in Poland (Pol))

POLAND

WIECZOROWSKI, Stefan.

1. Department of Parasitology, Agricultural University
College, Lublin; 2. Military Department of Veterinary
Hygiene (Woj. Zaklad Higieny Weterynaryjnej), Bialystok.

Warsaw, Acta Parasitologica Polonica, Fasc 15, 30 June
1965, pp 141-150

"Studies on immunity phenomena in guinea pigs infected
with Dictyocaulus filaria."

WIECZORKIEWICZ, Tadeusz; DAWIDOWICZ, Aleksander; SYMONOWICZ, Norbert.

Results of the prednisone-glucose test in mothers giving birth
to giant fetuses. Ginek. Pol. 35 no.6:777-787 N-D '64

1. Z Kliniki Polcznictwa i Chorob Kobiecych Wojskowej Akademii
Medycznej w Lodz; z Kliniki Zdrowego Czlowieka Instytutu Me-
dycyny Otniczej i z Laboratorium Centralnego Szpitala Klinicznego
Wojskowej Akademii Medycznej w Lodz.

ACCESSION NR: AP4044126

P/0015/64/000/008/0197/0199

AUTHOR: Zawadzki, Antoni; Wieczorkowski, Zbigniew

TITLE: Problems of glass silk technology

SOURCE: Szkło i ceramika, no. 8, 1964, 197-199

TOPIC TAGS: glass cloth, glass fabric, glass fiber, fiberglas, glass silk, synthetic fiber, conference

ABSTRACT: The third international colloquium on fiberglas, organized by the Drezno Institute of Fiber Technology under the German Academy of Sciences, was held in October 16-18, 1963. The program included three groups of problems: 1) obtaining fiber-producing glass; 2) glass silk manufacture (properties of glass silk, test methods); and 3) finishing glass silk fabrics for reinforced plastics, and special problems concerning materials reinforced by fiberglas. The data presented at the colloquium indicate that the GDR and the Czechoslovak Socialist Republic devote much attention to finishing fabrics for reinforcing plastic materials and have set up machinery for the manufacture of "crown" glass fabrics. The Czechoslovak Socialist Republic is investing money in a new

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ACCESSION NR: AP4044126

plant for the manufacture of fiberglass by continuous methods with a capacity that is two times higher than that of the existing plants. The GDR will erect a silk glass manufacturing plant capable of exceeding the silk glass output of the Czechoslovak Socialist Republic. Poland lacks the capacity of manufacturing "crown" glass fabrics for the reinforcement of plastics, or for decoration and filtration purposes. It is suggested that the Institute of Synthetic Fibers in Lodz establish direct cooperation with the Fiberglass Institute in Moscow and remedy the situation.

ASSOCIATION: Instytut Wlokienn Sztucznych i Syntetycznych, Lodz (Institute of Synthetic Fibers)

SUBMITTED: 00 ENCL: 00 SUB CODE: MT

NO REF Sov: 000 OTHER: 000

Card 2/2

Wieczysty, A.

Determining the permeability coefficient on the basis of water elevation in shaft wells.

p. 108

GOSPODARKA WODNA. Warszawa, Poland. Vol. 18, no. 3, 1958

Monthly List of East European Accessions, (EEAI) LC, Vol. 9, No. 2, Feb. 1960

Uncl.

NIEDZIELSKI, Henryk; WIECZYSTY, Artur; KLINSKI, Tadeusz

The need for unification of hydrogeological methods of documentation. Przegl. geolog. 10 no.7:354-357 Jl '62.

1. Hydrologiczny Instytut, Politechnika, Krakow (for Niedzielski and Wieczysty). 2. Dyrektor Departamentu Hydrogeologii, Centralny Urzad Geologii, Warszawa (for Klinski).

NIEDZIELSKI, Henryk, mgr inz.; WIECZYSTY, Artur, dr inz.

Results of experimental studies on wells with horizontal drain tiles.
Gosp wodna 22 no.11:490-494 N '62.

1. Hydrogeo, Krakow (for Niedzielski). 2. Politechnika, Krakow (for
Wieczysty).

WIEDELSKY, Konrad, inz.

The magic disc. Horyz techn 17 no.3:13-15 Mr '64.

Wieder, N.

✓ Reduction in coal gas of high-iron and high-silica bauxite*
of Bécs, Hungary. Magnetic separation of red mud
obtained by the Bayer method. Z. Horváth, N. Wieder,
and A. Horváth (Tech., Univ., Miskolc, Hung.). *Acta
Tech. Acad. Sci. Hung.* 11, 383-404 (1955).—The bauxite
contained Al_2O_3 63.00; SiO_2 6.31; Fe_2O_3 21.80; TiO_2 3.70
and CaO 0.45%. A no. of expts. revealed that reduction of
the moist ore at 370° for 3 hrs. in an atm. of coal gas gave
the best sepn. step. Data covering ranges of 300° to 450°
and 1 to 3 hrs. are tabulated. The ore was reduced at nut
sizes in a lab. rotary kiln, subsequently cooled in a coal gas
atm., finely ground, and leached with sufficient 40% Be
 $NaOH$ to provide 1.8 moles of Na_2O for each mole of Al_2O_3 .
Ground pulp was autoclaved at 1 atm. for 3 hrs., filtd. to
30% Be , and sepd. into fractions by magnetic sepn. The
highly magnetic fraction contg. most of the Fe_2O_3 of the red
mud can be agglomerated and fed to the blast furnace; the
remainder is processed pyrogenically for Al_2O_3 recovery.
W. L. Cheesman

(2)

Wieder, d.

I-6

Hungary /Chemical Technology. Chemical Products
and Their Application

Mineral salts. Oxides. Acids. Bases.

Abs Jour: Referat Zhur - Khimiya, No 9, 1957, 312-46

Author : Horvath Z., Wieder N., Horvath A.

Inst : Hungarian Academy of Sciences

Title : Reduction in Coal Gas of High-Iron and High-
Silica Bauxite of Szoc (Hungary). Magnetic
Separation of Red Mud Obtained by Bayer Method.

Orig Pub: Acta Techn. Acad. sci. hung., 1955, 11, No 3-4,
363-404

Abstract: In the method that is proposed, in lieu of drying
of the bauxite, use is made of a reducing firing

Card 1/3

Hungary /Chemical Technology. Chemical Products
and Their Application

I-6

Mineral salts. Oxides. Acids. Bases.

Abs Jour: Referat Zhur - Khimiya, No 9, 1957, 312⁴⁶

with subsequent decomposition of the product by the method of Bayer. Separation of red mud from aluminate solution is effected in a magnetic field of varying intensity. The object of the study were bauxites containing (in %): 6.31 SiO_2 and 21.60 Fe_2O_3 , and having a modulus of 8.4. Optimal conditions of firing: maintaining at 370° for 3 hours. Advantages of this method are simplification of the process of red mud separation and also a high degree of utilization of Fe_2O_3 and Al_2O_3 contained in the bauxite. The strongly magnetic portion of the mud (amounting to 40-50% of its weight) containing 70-72% Fe_2O_3 , can be utilized as raw material of blast furnace

Card 2/3

Hungary /Chemical Technology. Chemical Products
and Their Application

I-6

Mineral salts. Oxides. Acids. Bases.

Abs Jour: Referat Zhur - Khimiya, No 9, 1957, 31246

smelting; from the low magnetic portion of the mud, containing (in %): 20-21 Al_2O_3 and about 6.5 Na_2O , can be recovered, by means of a pyro- genic process, a considerable portion of these oxides. The proposed procedure permits a recovery (in %) of: 92.5 Al_2O_3 and 54 Fe_2O_3 .

Card 3/3

11.04. Extraction of Iron From Bauxite by Hydrometallurgy
Bauxitból szigeteltítés hidrometallurgiai úton. (Hungarian.)
Zoltán Horváth and Nándor Wicker. Kollantsi Lepk. V. 1,
no. 4, Apr. 1956, p. 178-182.
Suggestion of method, economic and technical advantages.
D.L. [initials]

WIEDER, N.; HORVATH, Z.

Hydrometallurgic method for the removal of iron from bauxite. p. 179 (Kohaszati Lapok. Budapest Vol. 11, no. 4, Apr. 1956)

SO: Monthly List of East European Accessions (EEAL) LC., Vol. 6, no. 7, July 1957 Uncl.

WIEDER, Nandor, okleveles kohomernok

Data on the development of a method for processing carbonate manganese ore of Urkut. (To be contd.). Koh lap 95 no.11: 96-501 N '62.

1. NME Femkohaszati Tanszek.

WIEDER, Nandor, okleveles kohomernok

Data on the development of processing the Urkut carbonate,
manganese ore. (Continuation). Koh lap 95 no.12:552-558
D '62.

1. Bevezeteni Muszaki Egyetem Femkohaszati Tanszek.

WIEDER, Nandor, okleveles kohomernok

Preparation of electrolytic manganese in the U.S.A. and possibilities
for its production in Hungary. Koh lap 98 no.3:114-120 Mr '65.

RUMANIA/Chemical Technology - Chemical Products and Their Application. Cellulose and Its Production. Paper. H-33

Abs Jour : Ref Zhur - Khimiya, No 17, 1958, 59532

Author : Wiedermann, A.

Inst :

Title : Semi-Plant Experiments for the Production of Semi-Cellulose from Reed by a Continous Soda Method.

Orig Pub : Celuloza si hirtie, 1958, 7, No 2, 56-63

Abstract : Results are described of experiments with continous semi-chemical boiling of semi-cellulose from reed in a semi-plant apparatus. An analysis is given of the conditions of boiling; more precise technological indices of the process, and the mechanical characteristics of the semi-cellulose obtained, are cited.

Card 1/1

- 103 -

WIEDEMANN, A.

The neurohormonal system of the skin. Boryogy. vener. szemle
39 no.6:241-245 D '63.

1. II sz. Egyetemi Borklinika (Igazgato: Prof. dr. A. Wiedemann)
Wien.

(SKIN) (SYMPATHETIC NERVOUS SYSTEM)
(PARASYMPATHETIC NERVOUS SYSTEM)
(PHYSIOLOGY) (NOREPINEPHRINE)
(HISTAMINE)

WIEDERMANN, Boleslav; DELONG, Vladislav.

Porphyria; acute and mixed forms, clinical aspects. Cas lek cs 93
no.17:451-457 Ap '54. (MEAL 3:7)

1. Z I. interni kliniky z Ustavu pathologicke anatomie PU v
Olomouci.

(PORPHYRIA,
*acute & mixed forms, clin. aspects)

WIEDERMANN, B.

DELONG, Vladislav; WIEDERMANN, Boleslav.

Porphyria; acute and mixed forms, anatopathological and
laboratory diagnosis. Cas lek cs 93 no.17:457-463 Ap '54.
(KRAL 3:?)

1. Z ustavu pathologiche anatomie I. interni kliniky PU v
Olomouci. Prednostove doc Dr C. Dvoracek a prof. Dr J. Blatny.
(PORPHYRIA, diagnosis,
acute & mixed forms)

WIEDERMANN, B., Dr; OSTADALOVA, B., Dr; DOLENEK, A., Dr

~~Eye manifestations in malignant diseases of the lymphatic system.~~
Cesk.ofth. 11 no.4-5:341-355 1955.

1. Z oculi kliniky PU v Olomouci, prednosta prof. Dr V. Vejdovsky.

2 Interni kliniky PU v Olomouci, prednosta prof. Dr P. Lukl.

(LYMPHATIC SYSTEM, diseases

ocular manifest.)

(EYE, diseases
in lymphatic system dis.)

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CZECHOSLOVAKIA/General Problems of Pathology. Neoplasms.

U

Abs Jour: Ref Zhur-Biol., No 8, 1958, 37229.

Author : Wiedermann, B.

Inst :

Title : Treatment of Chronic Myelosis with Desacetyl-Methyl-
Colchicine (Compound F, Demecolcine, Colchamine,
Colcemide)

Orig Pub: Vnitřní lekarství, 1957, 3, No 5, 448-465.

Abstract: Eleven of 18 patients with chronic myeloid leukemia, treated previously with various preparations, showed good therapeutic effects with desacetylcolchicine (I); in the remaining the remission was incomplete and of short duration. I shows a rapid, but controllable, effect on neutropoiesis also in patients not responding to myleran or radiation therapy. The advantage of I

Card : 1/2

VNITŘNÍ PLN. PÚ, Olomouc,

CZECHOSLOVAKIA/General Problems of Pathology. Neoplasms.

U

Abs Jour: Ref Zhur-Biol., No 8, 1958, 37229.

consists in the insignificant damage to the bone marrow, particularly to thrombocytopoiesis. Its disadvantage is in the need of prolonged administration and frequent blood control. The possibility of application of I in the therapy of other malignant hemopathies - cancer, sarcoma and some skin diseases - is considered.

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